

Patent Abstracts of Japan

PUBLICATION NUMBER : JP3197865
 PUBLICATION DATE : 29-08-91
 APPLICATION NUMBER : JP890336275
 APPLICATION DATE : 27-12-89

VOL: 15 NO: 462 (P - 1279)
 AB. DATE : 22-11-1991 PAT: A 3197865
 PATENTEE : TOSOH CORP
 PATENT DATE: 29-08-1991

INVENTOR : ABE NAOTO; others: 01

INT.CL. : G01N33/53; G01N33/577

TITLE : MEASURING METHOD FOR
 PHOSPHATIDYLCHOLINE

ABSTRACT : PURPOSE: To safely immunologically measure phosphatidylcholine (PC) with a simple operation and high sensitivity in a short period of time by using a monoclonal antibody which specifically recognizes the PC.

CONSTITUTION: The PC which is prepd. from the egg yolk, is immobilized on nitrocellulose paper and is homogenated in PBS i. directly immunized as an antigen to the spleen of a mouse. The formed by coating acid treated Salmonella Minnesota bacteria with the PC is additionally immunized from the vein of the tail part after two weeks. The spleen is extracted from the mouse after 3 days of the final immunization and the antibody forming cells are prepd., by which the hybridoma is prepd. The analysis of the supernatant of the hybridoma culture is then executed and the hybridoma producing the antibody which reacts specifically with the PC is selected. Plural kinds of the monoclonal antibodies which specifically recognize the PC are thus obtd. The independent measurement of the PC in a sample by identifying the same from other phospholipids is, therefore, possible. The measurement of the many specimens with the simple operation and the high sensitivity in a short period of time is thus executed